PERFORMANCE

The Series 1450S window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

Fix	ced		Project Out - Awning			
AAMA Rating	AW	'-120	AAMA Rating	AW-120		
Air Infiltration	0.0 C	FM/ft ²	Air Infiltration	0.02 C	FM/ft ²	
Water	Over	12 psf	Water	Over	12 psf	
Structural	180	psf	Structural	180	psf	
CRF (AAMA 1503)	not tested		CRF (AAMA 1503)	not tested		
Center of Glass U-Value	Window U-Factor ³		Center of Glass U-Value	Window U-Factor ³		
BTU/Ft ² x F° x Hr	47" x 59" ² 60" x 99" ¹		BTU/Ft ² x F° x Hr	59" x 24" ²	60" x 36" ¹	
0.20	0.34	0.29	0.20	0.50	0.43	
0.24	0.37	0.33	0.24	0.52	0.45	
0.29	0.41 0.37		0.29	0.55	0.49	
0.34	0.45 0.41		0.34	0.57 0.52		
0.47	0.55	0.52	0.47	0.65	0.60	

Project In	- Hopper		Casement			
AAMA Rating	AW	'-120	AAMA Rating	AW-120		
Air Infiltration	0.08 C	FM/ft ²	Air Infiltration	0.1 C	FM/ft ²	
Water	Over	12 psf	Water	Over	12 psf	
Structural	180	psf	Structural	180 psf		
CRF (AAMA 1503)	not tested		CRF (AAMA 1503)	not tested		
Center of Glass U-Value	Window U-Factor ³		Center of Glass U-Value	Window U-Factor ³		
BTU/Ft ² x F° x Hr	59" x 24" ²	60" x 36" ¹	BTU/Ft ² x F° x Hr	24" x 59" ²	36" x 60" ¹	
0.20	0.50	0.43	0.20	0.50	0.43	
0.24	0.52	0.45	0.24	0.52	0.45	
0.29	0.55	0.49	0.29	0.55	0.49	
0.34	0.57 0.52		0.34	0.57	0.52	
0.47	0.65	0.60	0.47	0.65	0.60	

This Information is based on current product design, sealed dual glazing, warm edge spacers and testing standards

Please contact WINCO for project specific information

¹AAMA 101 Test Size

² NFRC Gateway Test Size

³ Based on NFRC 100

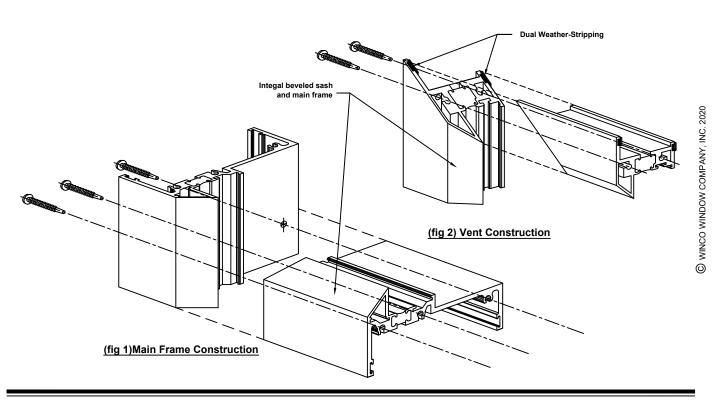
CONSTRUCTION

MATERIAL - The Series 1450S window is a 4" deep frame depth with a nominal wall thickness of .125 inch. All material is extruded from 6063-T6 alloy.

THERMAL BREAK - All framing members of the window system are thermally broken. Winco uses the Azon Azo Brader® process to mechanically condition the surface of the thermal cavity. The process runs the entire length of the extrusion and creates serrations that insure proper adhesion of the structural polymer. The structural urethane is a high density 2 part formula providing optimum thermal performance for the most demanding conditions. The combination of the conditioning of the aluminum surface along with the two part urethane allows Winco to provide a full 10 year warranty against thermal break creep and shrinkage in accordance with AAMA 505-98.

WEATHER-STRIP - All operating ventilators have a double Santoprene®, non-shrinking dual durometer, thermoplastic rubber weather-stripping around the perimeter. One interior and one exterior.

FABRICATION - The main frame corners are coped and mechanically joined using three stainless steel spline screws per corner (fig 1). The vent is a hollow tube shaped extrusion for superior strength and rigidity. Vent corners are fully mitered and mechanically joined using two stainless steel spline screws per corner, aligning the members to form a hairline joint (fig 2). All frame joints are back sealed with small joint seam sealer providing a water tight joinery.



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GLAZING

The windows can be interior or exterior glazed with .050 thick extruded aluminum glazing beads accommodating thicknesses from 1/8" up to 1". Dual glazing is an option utilizing an interior panel sash that can either be hinged with 4-bar stainless steel hinges or a more economical take out sash. Venetian blinds are available with the dual glazed window options. See the quick reference chart below for all glazing options. For actual details refer to the glazing section in the back of the 1450S section for optional glazing and blind details.

Glazing Th	nickness	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/4"	1-3/8"	1-1/2"
Monoli	ithic	Χ	Х	Х	-	-	Х	Х	-	-	-	-	-	-	-
Insula	ted	-	-	-	-	-	-	-	-	Х	Х	Χ	-	-	-
Dual	Exterior	-	Х	Χ	-	-	-	-	-	-	-	-	-	-	-
Glazed	Interior	Χ	Χ	Χ	-	-	-	-	-	-	-	-	-	-	-
Triple	Exterior	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glazed	Interior	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Winco has different gaskets and glazing methods that can accommodate odd thicknesses of glass. If you do not see what you are looking for within this chart please contact your local representative for information regarding your specific project needs.

HARDWARE

All exposed locking hardware, strikes and keepers are solid white bronze alloy with US25D brushed finish. All four bar arms, casement arms, friction arms and key release limit arms are stainless steel conforming to AAMA 904.1. Five knuckle butt hinges are fabricated of 6063-T6 aluminum with nylon bushings and a stainless steel hinge pin.

Window Type	Butt Hinge	4-Bar Arms	Casement Arms	Friction Adjustable	Roto Operator	Cam Lock	Pole Ring Cam Lock	Access Control Lock	Lift Lock	Pole Ring Lift Lock	Pull Handle	Key Release Limit Arm	Fixed Limit Stop	Under Screen Push Bar
PO - Awning	-	Х	ı	-	0	X	0	0	0	0	0	0	0	O 5
PI - Hopper	-	Х	-	-	-	Х	0	0	0	0	-	0	0	-
Casement - Outswing w/ Butt Hinges	Х	-	0	Х	0	0	0 3	0	Х	0	Х	0	0	O 5
Casement - Inswing w/ Butt Hinges	Х	-	0	Х	-	0	0	0	Х	0	-	0	0	-
Casement - Outswing w/ concealed Hinges	-	-	Х	-	O ^{2, 4}	0	0 3	0	0	0	Х	0	0	O ^{2, 5}
Casement - Inswing w/ concealed Hinges		-	Х			0	0	0	Х	0		0	0	

X = Standard Hardware

O = Optional Hardware

Note:

- ¹ Not all hardware is compatible with each other, contact your local Winco representative for information
- $^{2}\,$ Size limitations exist on some hardware, contact your local Winco representative for information
- ³ A pole ring pull will be provided on a project out vent is optional pole ring cam locks are required and no screen is furnished
- ⁴ Minimum width requirement for optional roto operators on casement windows with concealed casement arm hinging
- $^{\,\,\,\,}$ Under screen push bars are not recommended by Winco if optimum water performance is a requirement

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SCREENS

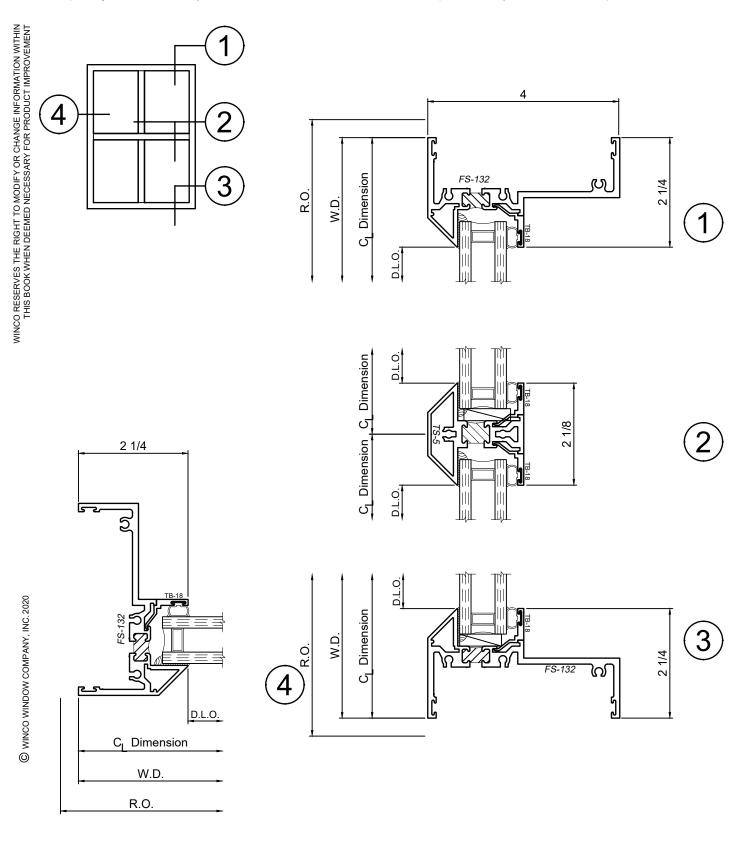
FRAME - frames are fabricated from 6063-T6 extruded aluminum alloy and temper. All screen frames are miter cut and corner keyed. The corners are mechanically crimped together for durability. The screen frame is finished to match the window frame.

MESH - Standard .011 aluminum screen wire mesh is produced from 5154 alloy with 18x16 pattern in Charcoal or Aluminum color. All mesh is applied to the screen frame with a roller spline making for easy and quick replacements. Optional fiberglass or .009 stainless steel mesh is available as an option.

1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Fixed - Picture Window

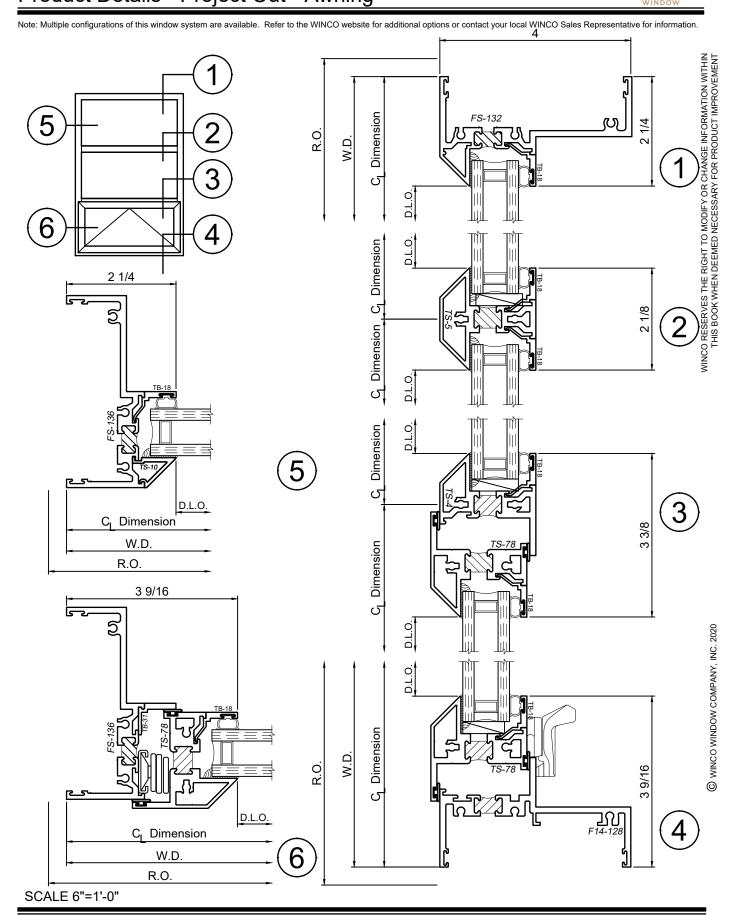
WINCO

Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

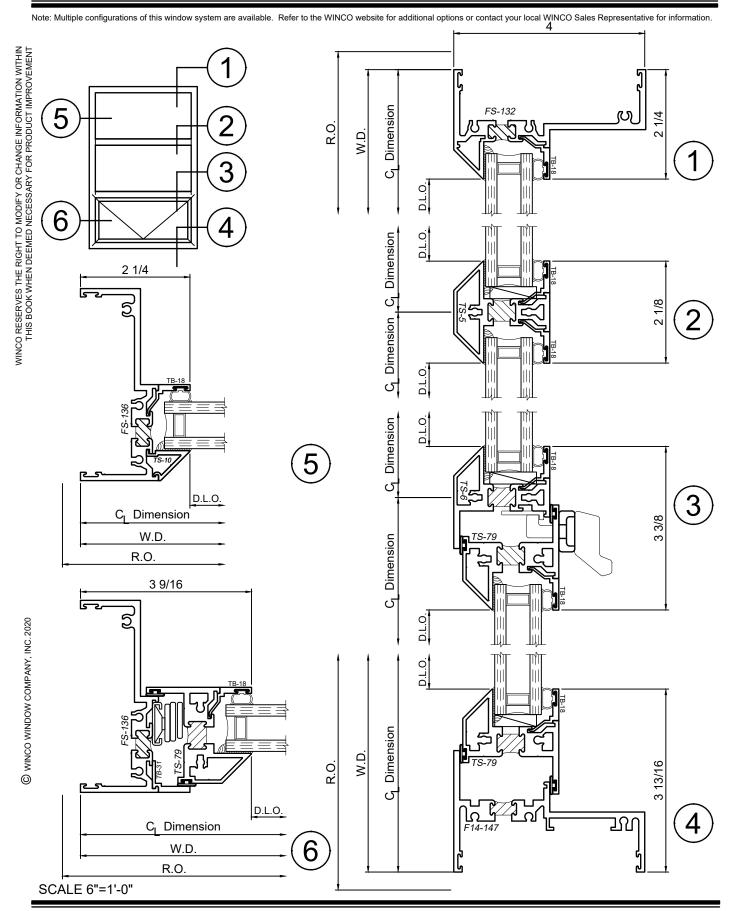


SCALE 6"=1'-0"

1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Project Out - Awning

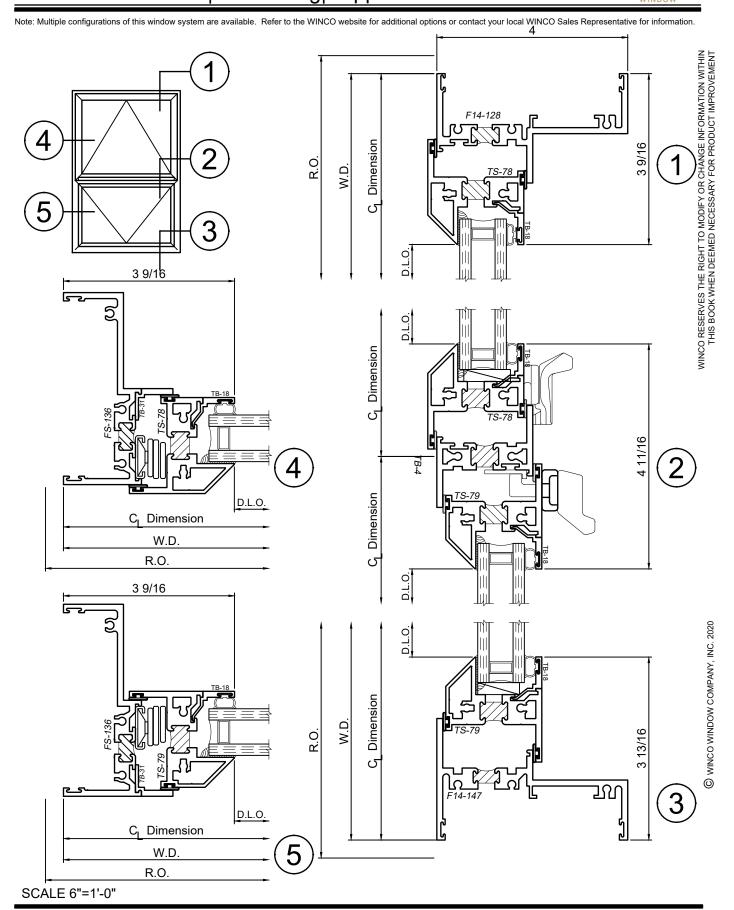


1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Project In - Hopper



1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - PO|PI - Awning|Hopper

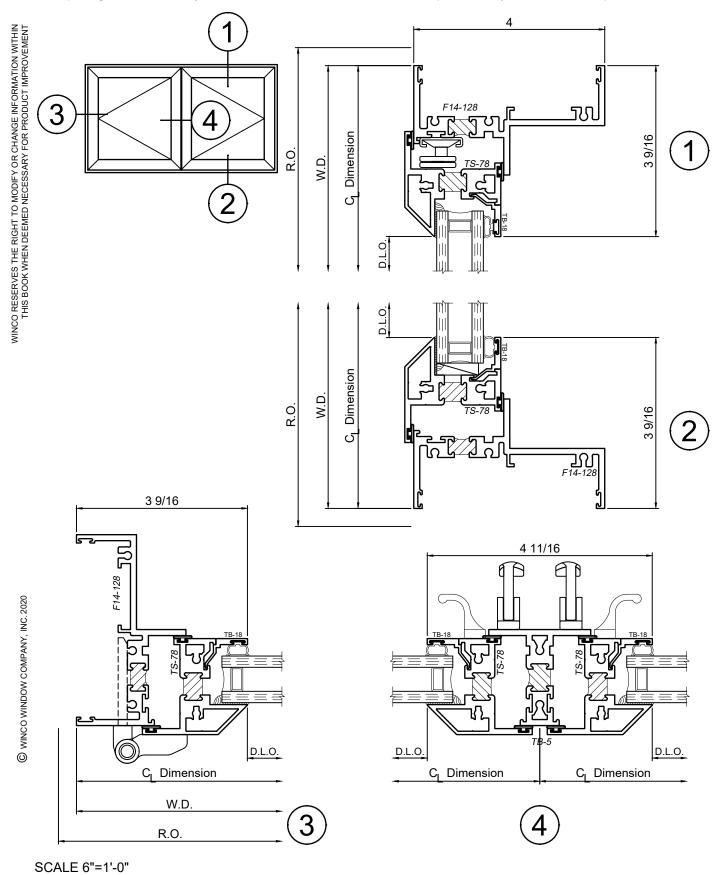




1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Butterfly Casement - Outswing

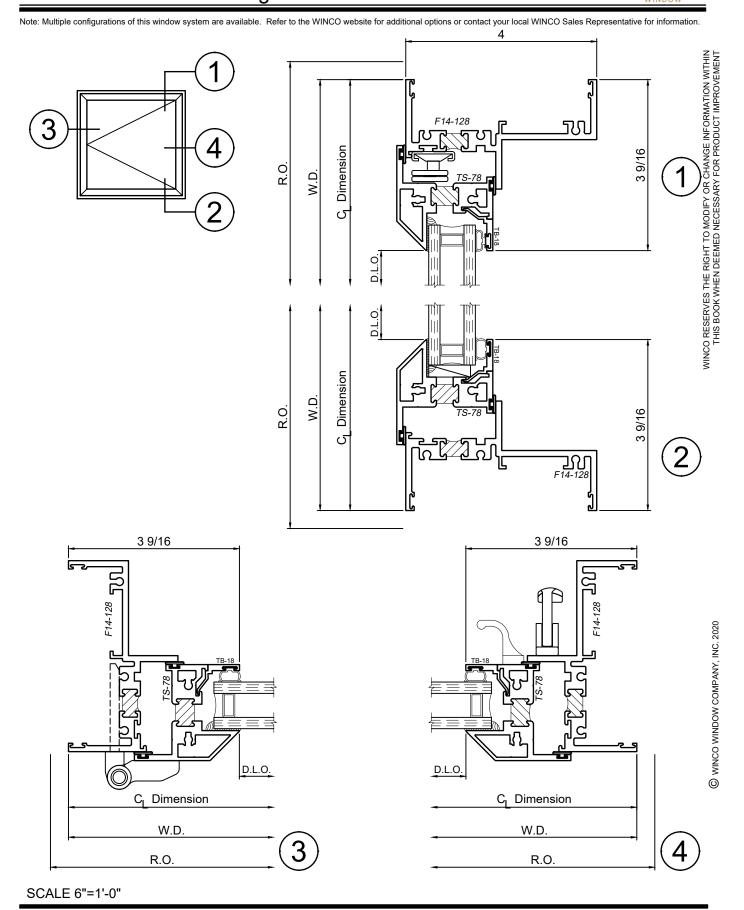
WINCO

Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

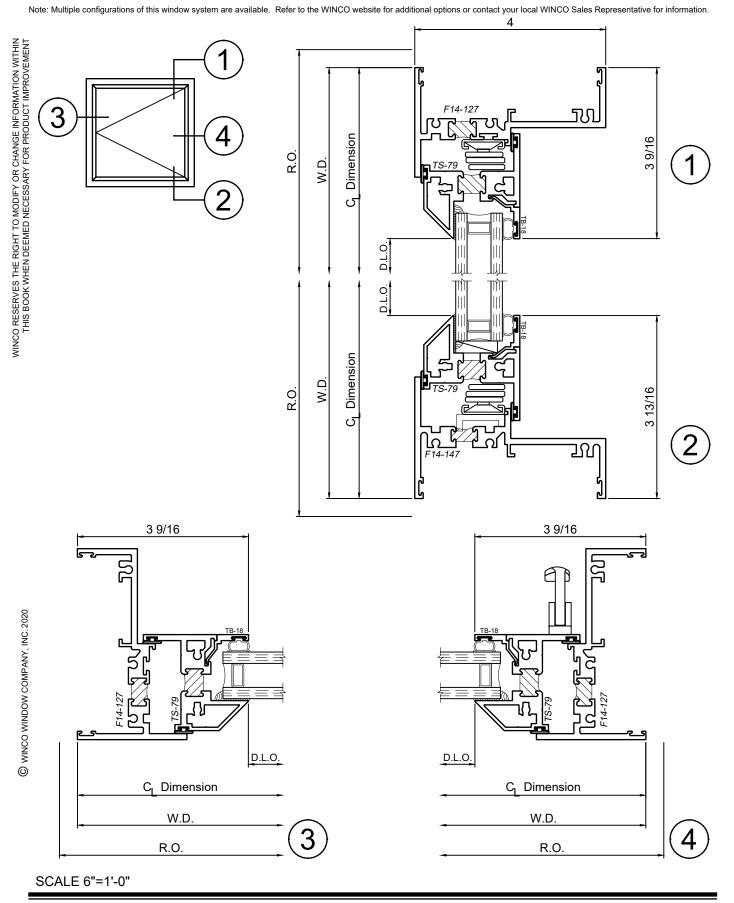


1450S Series 4" Thermal Fixed, Casement & Projected Windows WINCO **Product Details - Outswing Casement**



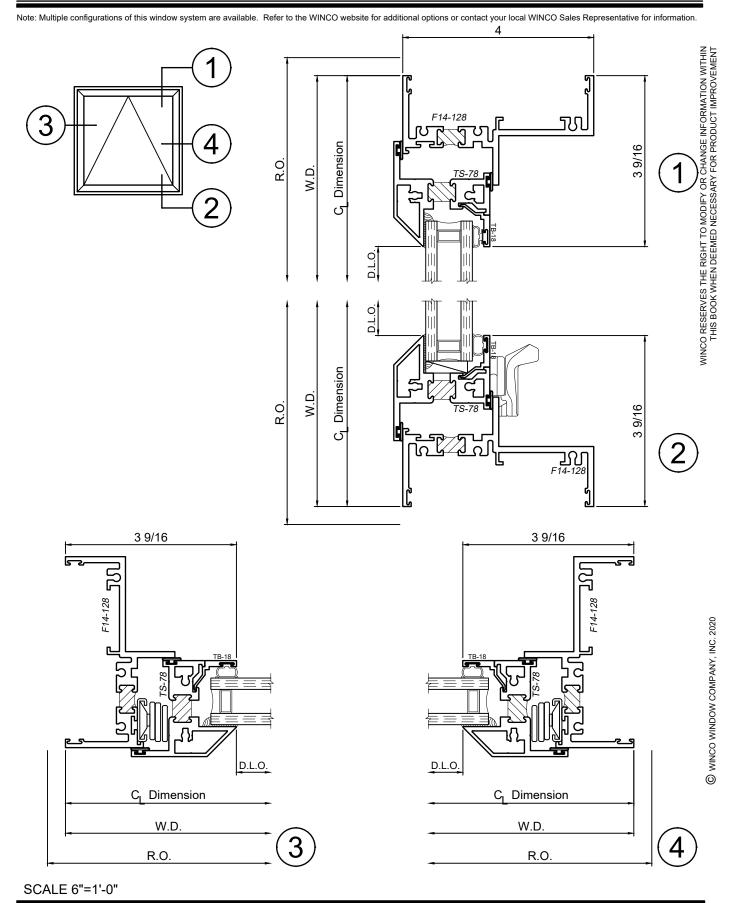


1450S Series 4" Thermal Fixed, Casement & Projected Windows WINCO Product Details - Inswing Casement

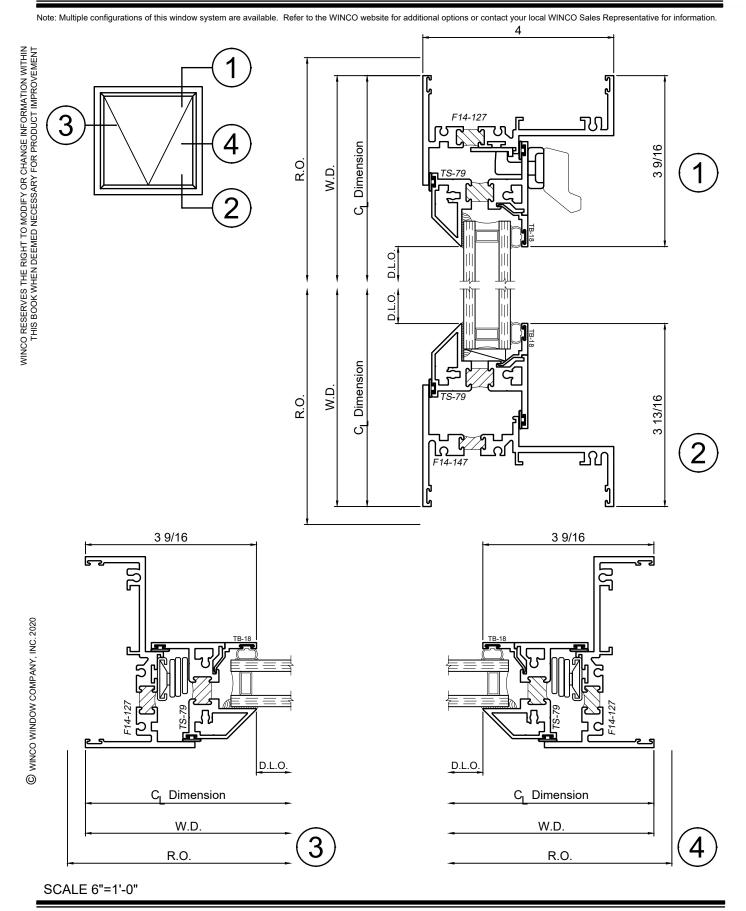


1450S Series 4" Thermal Fixed, Casement & Projected Windows WINCO Product Details - Project Out - Awning





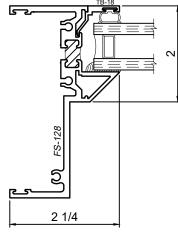
1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Project In - Hopper



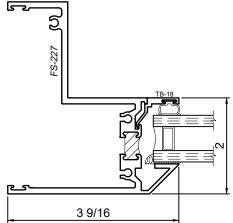
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WINCO

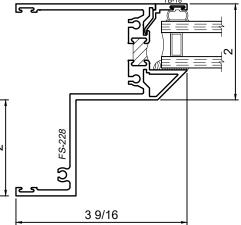
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



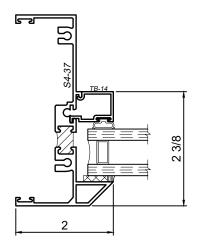
Available at head, jamb and sill Fixed Lite Only



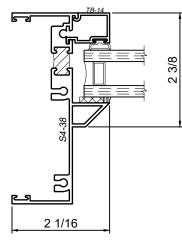
Available at head, jamb and sill Fixed Lite Only



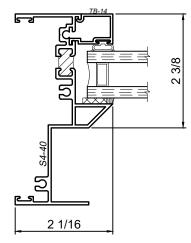
Available at head, jamb and sill Fixed Lite Only



Available at head, jamb and sill Fixed Lite Only

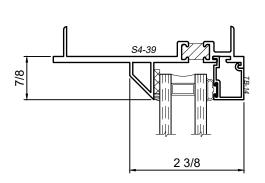


Available at head, jamb and sill Fixed Lite Only

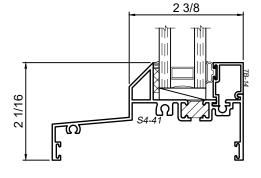


1450S /O /1

Available at jamb Fixed Lite Only



Available at head and jamb Fixed Lite Only



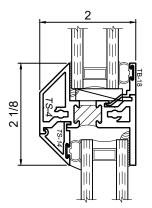
Available at sill Fixed Lite Only

SCALE 6"=1'-0"

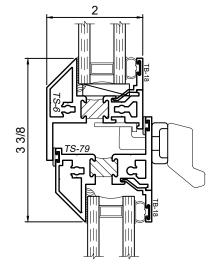
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2 1/8

Standard T - Rail



Standard Z - Rail

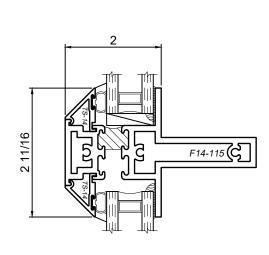


Standard Z - Rail

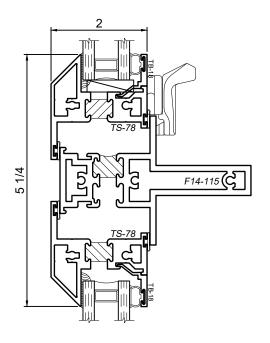
WINCO

Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

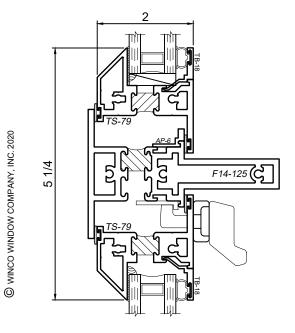




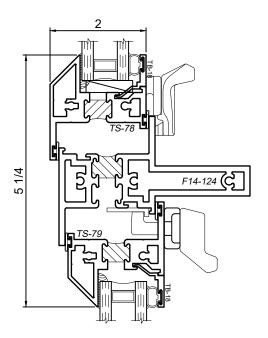
4" deep T - Rail available only for exterior glazed fixed unit



4" deep T - Rail available only for PO over PO unit



4" deep T - Rail available only for PI over PI unit



4" deep Z - Rail available only for PO over PI unit

SCALE 6"=1'-0"

Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

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Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

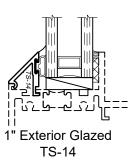




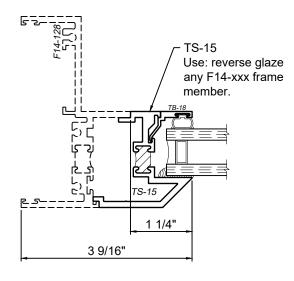


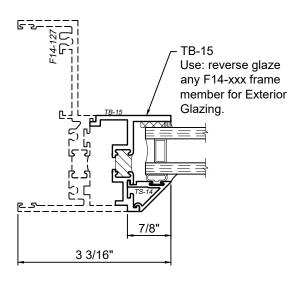






FRAME INSERTS





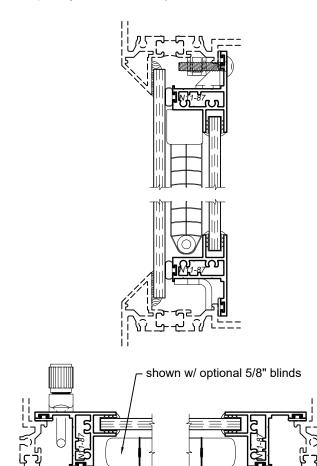
Note: glazing options shown are a sample of what is available. If desired glazing is not shown please contact your local Winco Sales Representative for additional information.

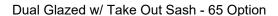
SCALE 6"=1'-0"

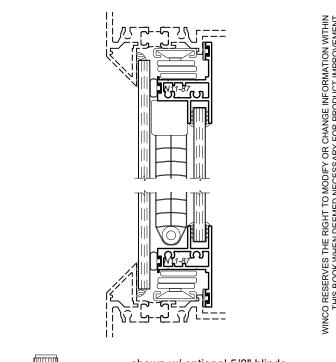
1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Dual Glazed w/ Interior Sash

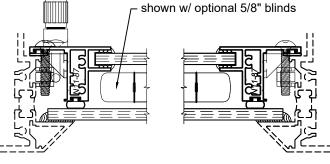
's WINCO

Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.







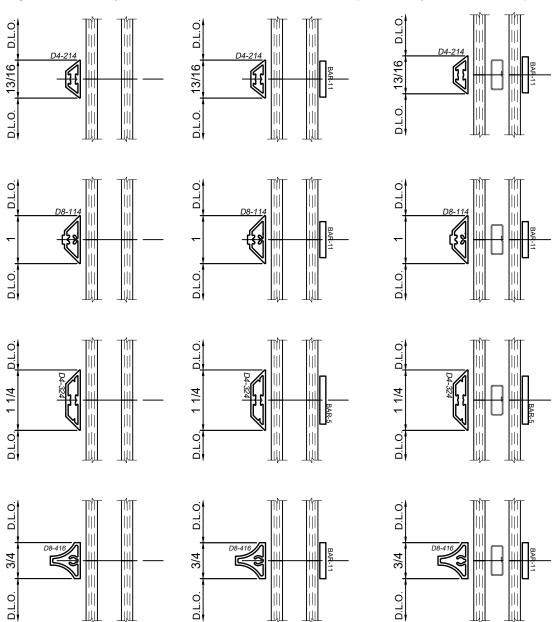


Dual Glazed w/ Hinged Sash - 75 Option

1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Grid Options

Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT

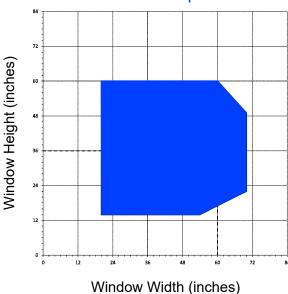


(800) 525-8089

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Projected In / Out with Four Bar Arms (sequence of the sequence of the sequen

Projected In / Out with Pivot Shoe Roto-Operator



- Dashed line represents the gateway size window as tested by AAMA.
- All vent sizes are based upon 1" Insulated glass consisting of ¼" glass -½" air -½" glass.
- Any vent size outside of the AAMA Gateway tested size may have reduced performance.
- Chart assumes the window has been installed in a properly prepared opening by a qualified installer

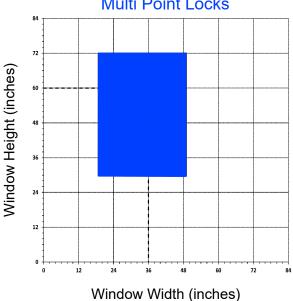
AAMA Gateway Size

- Individual job criteria such as: other glazing materials, specified wind load, and specific operating hardware; may enhance or restrict the chart.
- Minimum vent size is 10" x 14-3/4" with standard cam locks and 4-bar hinges.
- The chart is a general guideline for projected vent sizing, anything on the edge or outside of the range will need to be reviewed by Winco Engineering.

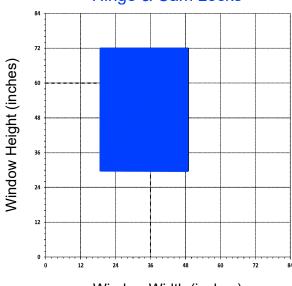


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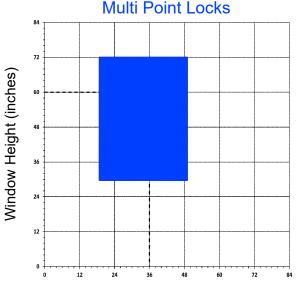


Casement with 5 Knuckle Butt Hinge & Cam Locks

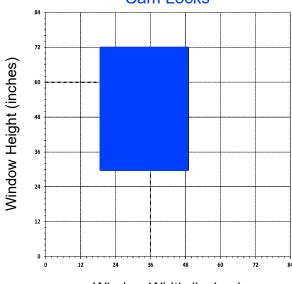


Window Width (inches)

Casement with Concealed Four Bar Casement Arm &



Casement with Concealed Four Bar Casement Arm & Cam Locks



Window Width (inches)

Window Width (inches)

- Dashed line represents the gateway size window as tested by AAMA.
- All vent sizes are based upon 1" Insulated glass consisting of $\frac{1}{4}$ " glass - $\frac{1}{4}$ " glass.
- Any vent size outside of the AAMA Gateway tested size may have reduced performance.
- Chart assumes the window has been installed in a properly prepared opening by a qualified installer

AAMA Gateway Size

- Individual job criteria such as: other glazing materials, specified wind load, and specific operating hardware; may enhance or restrict the chart.
- Minimum vent size is 18-3/4" x 29-3/8" with standard cam locks and 4-bar hinges.
- The chart is a general guideline for projected vent sizing, anything on the edge or outside of the range will need to be reviewed by Winco Engineering.

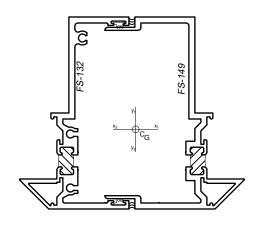
1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Vertical Stack - FS-132 / FS-149

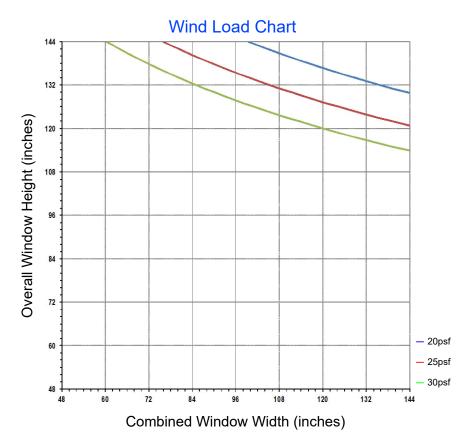
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

Combined Properties

	X-X	Y-Y
ı	4.8688 in ⁴	0.6191 in ⁴
S	2.1241 in ³	0.4317 in ³

Maximum area = 40 ft² Maximum Total Unit Weight must not exceed 500 lbs.



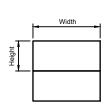


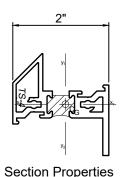
This chart can be used as a guideline for the preliminary structural evaluation of the mullion/stack shown. The chart is based on conservative engineering practices and the minimum result from either L/175 Deflection, $\frac{3}{4}$ " deflection, or 15 ksi outer fiber stress. The chart reflects the structural strength of 2 continuous window jambs running the full height of the opening. WINCO highly recommends consulting an engineer for any of the following circumstances:

- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft²) light of glass above.
- Any vent width exceeds 60".
- Window exceeds the maximum size shown.
- Window has multiple rails (>3).

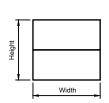
WINCO

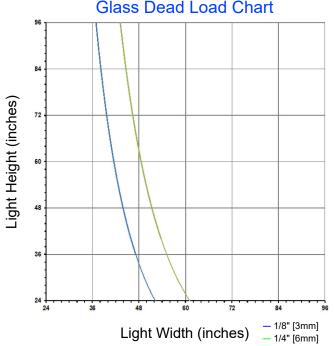
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

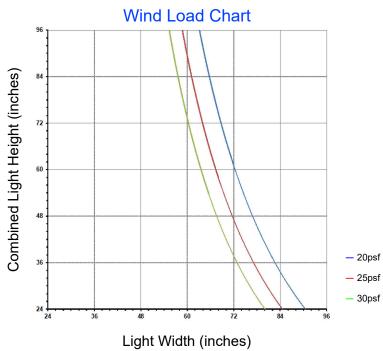




		•
	X-X	Y-Y
I	0.3630 in ⁴	0.1261 in ⁴
S	0.3314 in ³	0.1181 in ³





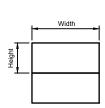


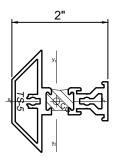
This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on $\frac{1}{4}$ " - $\frac{1}{4}$ " I.G. and 0.090" deflection at $\frac{1}{4}$ and $\frac{1}{8}$ point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection, $\frac{3}{4}$ " deflection, or 15 ksi outer fiber stress. The charts reflect the structural strength of only the Rail. WINCO highly recommends consulting an engineer for any of the following circumstances:

- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft²) light of glass above.
- I.G. make-up varies from the default.
- I.G. has additional blocking.

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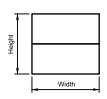
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

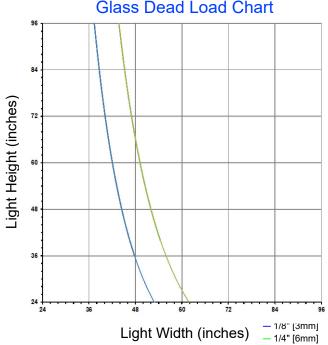


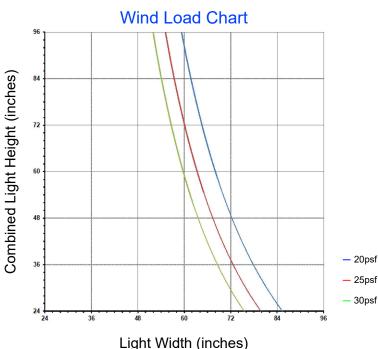


Section Properties

	X-X	Y-Y
Ι	0.2992in ⁴	0.1324 in ⁴
S	0.2789 in ³	0.1246 in ³





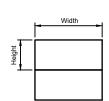


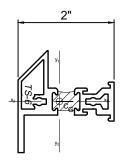
This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on $\frac{1}{4}$ " - $\frac{1}{2}$ " - $\frac{1}{4}$ " I.G. and 0.090" deflection at $\frac{1}{4}$ and $\frac{1}{6}$ point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection, $\frac{3}{4}$ " deflection, or 15 ksi outer fiber stress. The charts reflect the structural strength of only the Rail. WINCO highly recommends consulting an engineer for any of the following circumstances:

- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft²) light of glass above.
- I.G. make-up varies from the default.
- I.G. has additional blocking.

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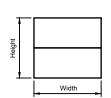
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

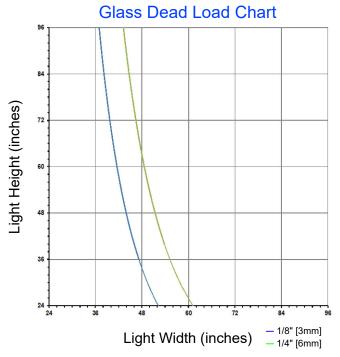


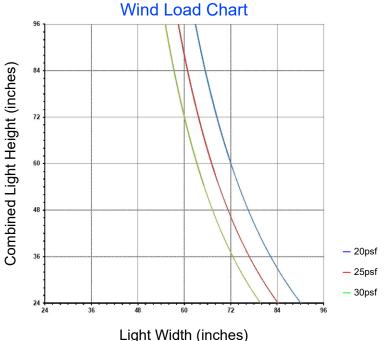


Section Properties

	X-X	Y-Y
Ι	0.3581 in ⁴	0.1266 in ⁴
S	0.3142 in ³	0.1189 in ³





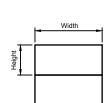


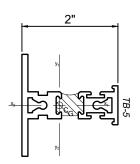
This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on $\frac{1}{4}$ " - $\frac{1}{4}$ " I.G. and 0.090" deflection at $\frac{1}{4}$ and $\frac{1}{8}$ point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection, $\frac{3}{4}$ " deflection, or 15 ksi outer fiber stress. The charts reflect the structural strength of only the Rail. WINCO highly recommends consulting an engineer for any of the following circumstances:

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- I.G. make-up varies from the default.
- I.G. has additional blocking.

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Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



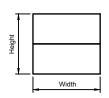


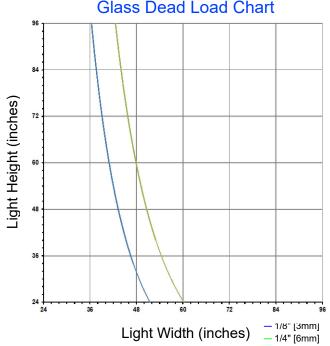
Section Properties

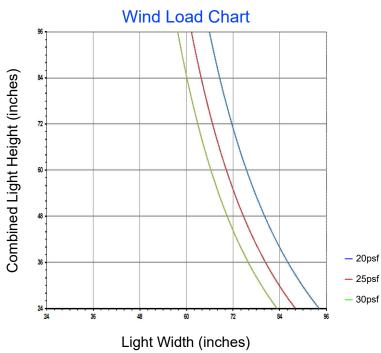
X-X

Y-Y

	X-X	Y-Y
I	0.4142in ⁴	0.1191in ⁴
S	0.3394 in ³	0.1121 in ³







This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on $\frac{1}{4}$ " - $\frac{1}{2}$ " - $\frac{1}{4}$ " I.G. and 0.090" deflection at $\frac{1}{4}$ and $\frac{1}{6}$ point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection, $\frac{3}{4}$ " deflection, or 15 ksi outer fiber stress. The charts reflect the structural strength of only the Rail. WINCO highly recommends consulting an engineer for any of the following circumstances:

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- Any rail exceeds 48" with a large (>16ft²) light of glass above.
- I.G. make-up varies from the default.
- I.G. has additional blocking.

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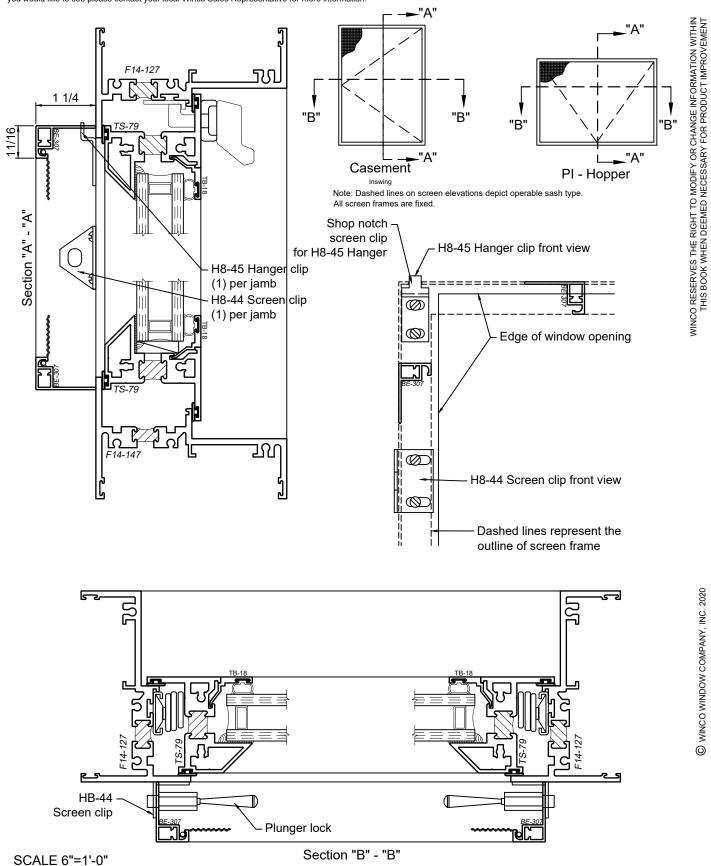
Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

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1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Screen Options - PI Hopper

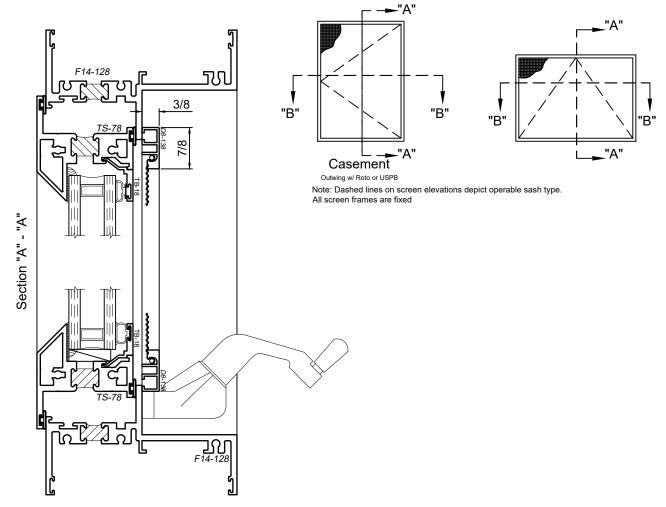
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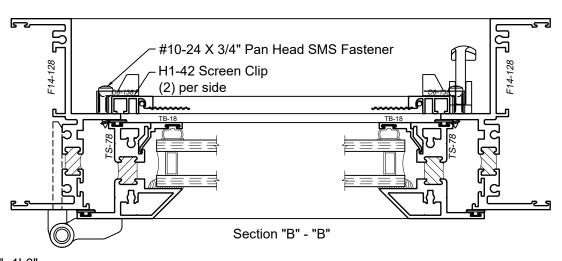
Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.



1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Screen Options - PO - Awning w/ Roto Operato VINCO

Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.





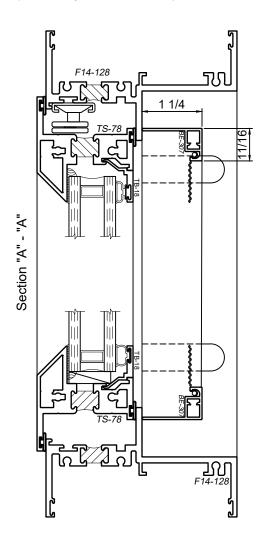
SCALE 6"=1'-0"

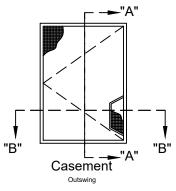
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1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Screen Options - Outswing Casement

Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

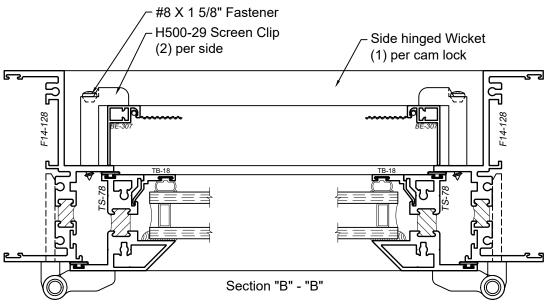




Note: Dashed lines on screen elevations depict operable sash type. All screen frames are fixed

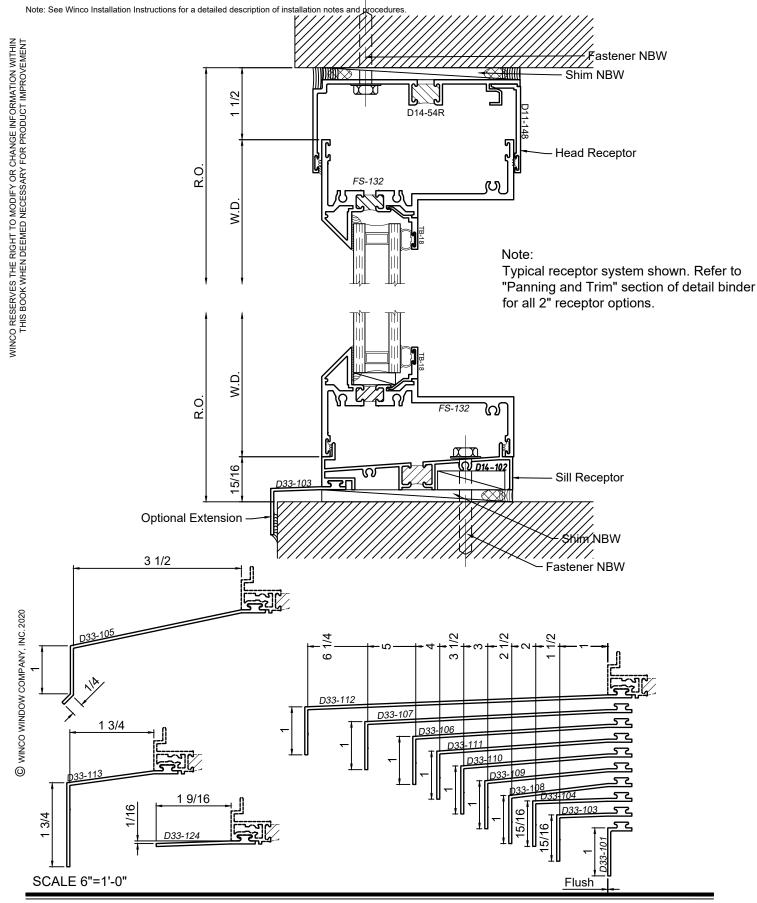
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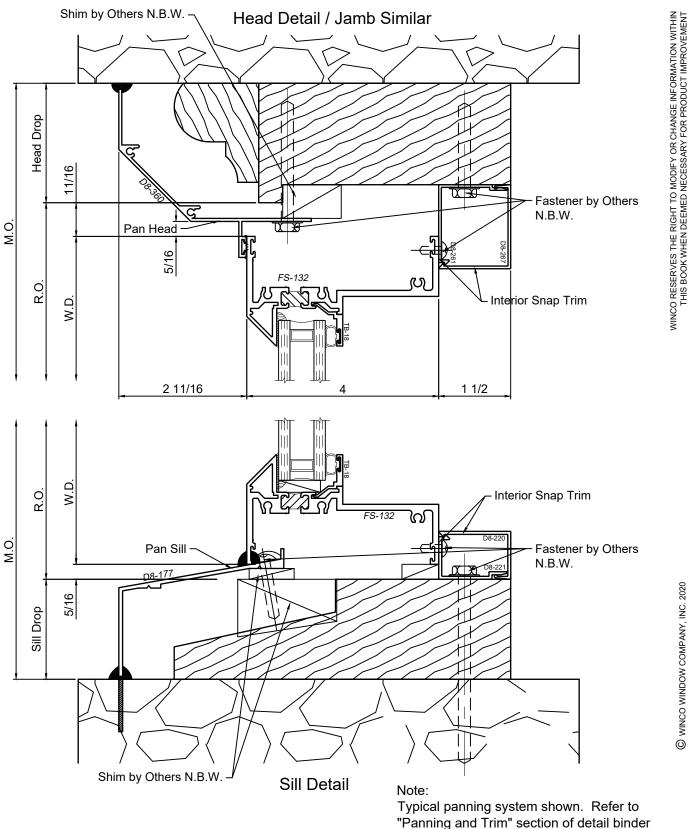


SCALE 6"=1'-0"

1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Trim - Receptor Installation



Note: See Winco Installation Instructions for a detailed description of installation notes and procedures



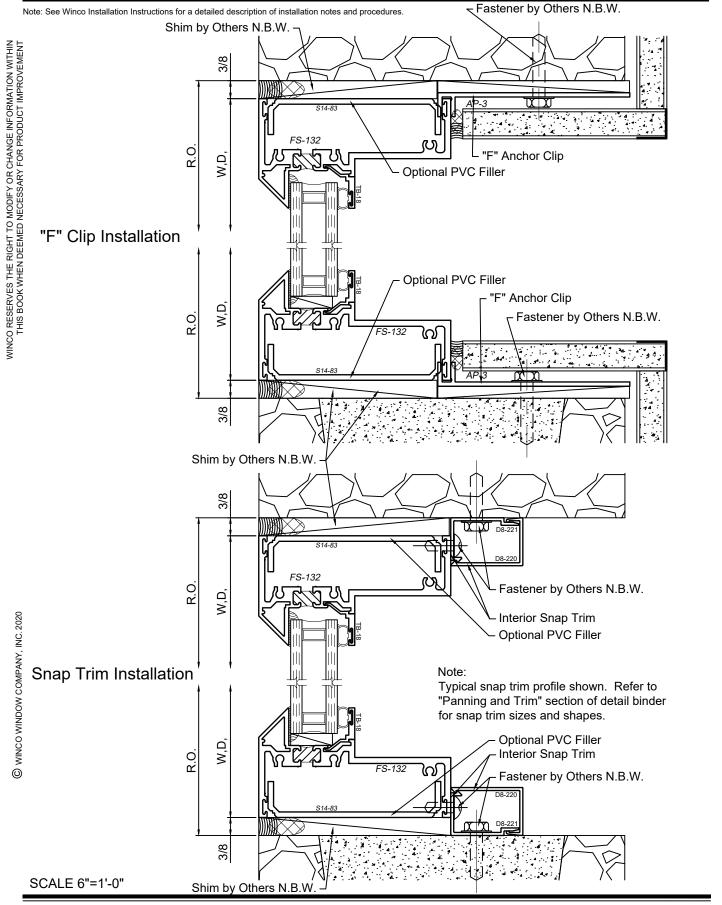
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for all panning and interior snap trim options

www.wincowindow.com

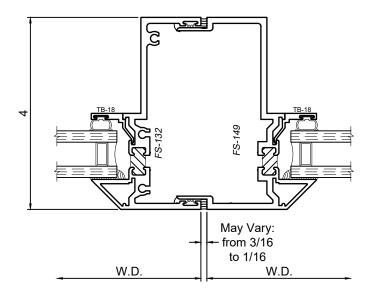
SCALE 6"=1'-0"

1450S Series 4" Thermal Fixed, Casement & Projected Windows Product Details - Trim - F-Anchor and Snap Trim Installation



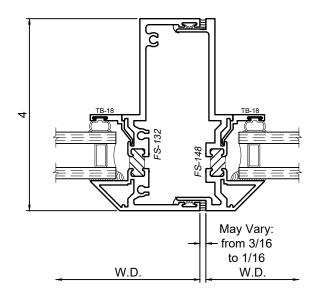


Typical Side Stack Framing



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Narrow Sightline Side Stack Framing

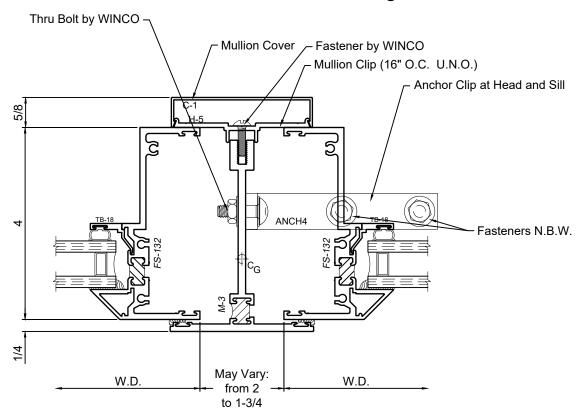


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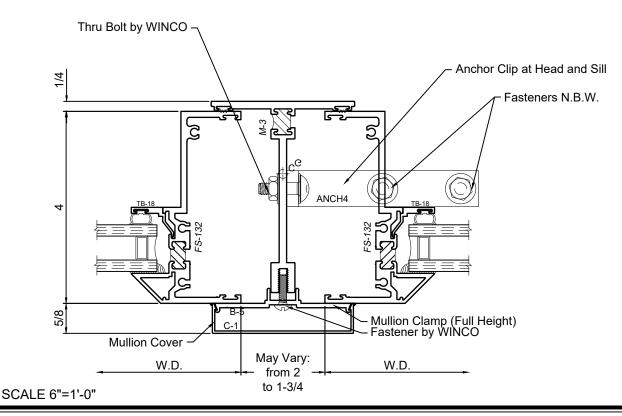
SCALE 6"=1'-0"

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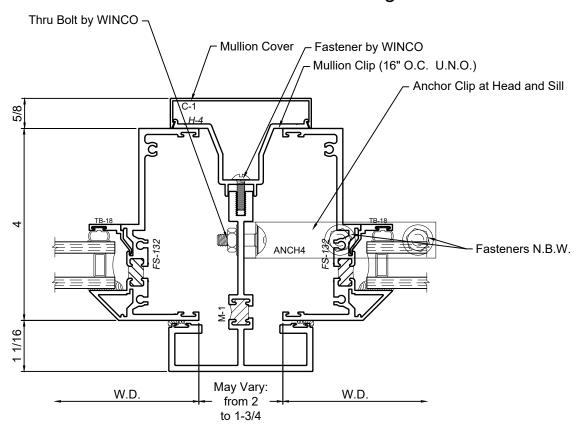
M-3 Mullion set from Building Interior



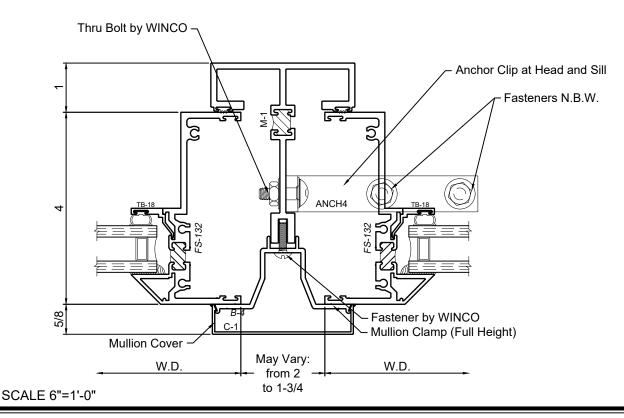
M-3 Mullion set from Building Exterior



M-1 Mullion set from Building Interior



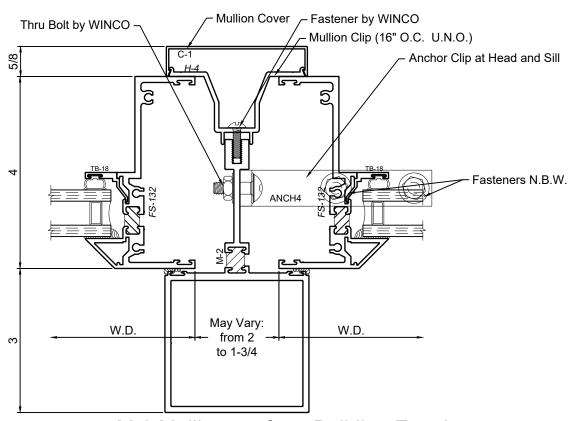
M-1 Mullion set from Building Exterior



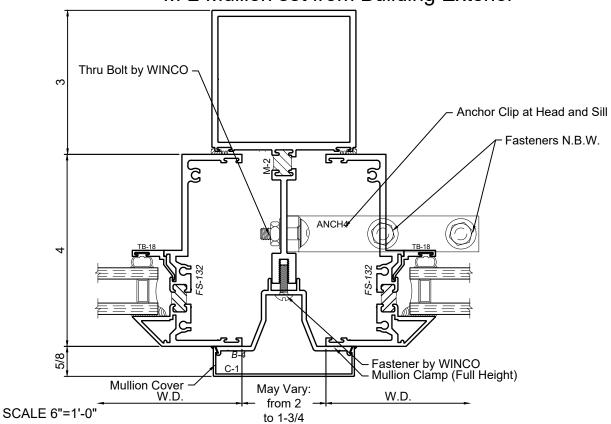
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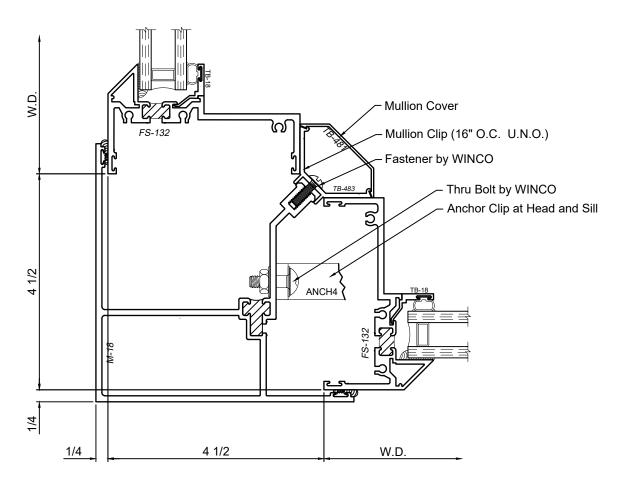
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M-2 Mullion set from Building Interior



M-2 Mullion set from Building Exterior

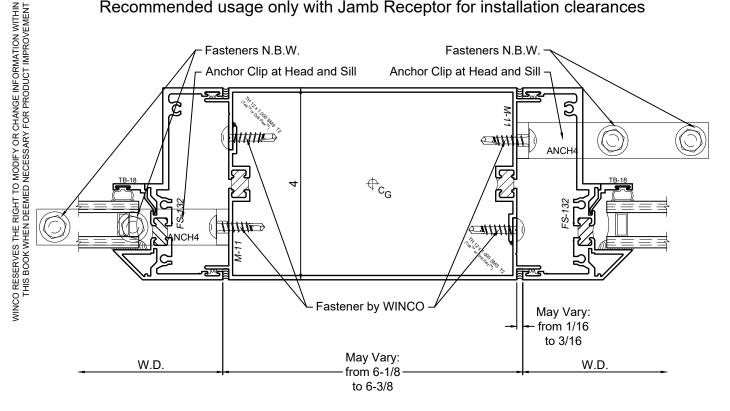






M-11 Mullion

Recommended usage only with Jamb Receptor for installation clearances



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